



SuccessMaker®

**Colorado Academic Standards
Mathematics 2020
Grade 6**

**Alignments to SuccessMaker
Providing rigorous intervention
for K-8 learners with unparalleled precision**

Colorado Academic Standards' Code	Colorado Academic Standards Mathematics 2020 Grade 6	SuccessMaker Item Descriptions	Item IDs
1	Number and Quantity		
6.RP.A	Ratios & Proportional Relationships: Understand ratio concepts and use ratio reasoning to solve problems.		
6.RP.A.1	Apply the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. For example, "The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote Candidate <i>A</i> received, Candidate <i>C</i> received nearly three votes."	Identify the ratio.	SMMA_LO_01712
		Write a ratio in three different forms.	SMMA_LO_01825
6.RP.A.2	Apply the concept of a unit rate a/b associated with a ratio $a:b$ with $b \neq 0$, and use rate language in the context of a ratio relationship. For example, "This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is $3/4$ cup of flour for each cup of sugar." "We paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger." (Expectations for unit rates in this grade are limited to non-complex fractions.)	Find the unit price of an item (products 2 x 6 to 25 x 32).	SMMA_LO_00830
		Identify two unit rates for a given word problem.	SMMA_LO_02114

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6.RP.A.3	Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.	Complete a comparison statement based on the ratios in two tables.	SMMA_LO_02116
		Find the amount of an ingredient needed to make two, three or four times a recipe.	SMMA_LO_01627
		Find the number of hours worked given the hourly rate and total earned.	SMMA_LO_01625
		Find the amount of an ingredient needed to make two, three or four times a recipe.	SMMA_LO_01627
		Ratios and Equations Targeted Lesson 18: Solving Percent Problems	
		Ratios and Equations Targeted Lesson 17: What Does the Percent Refer To?	
6.RP.A.3.a	Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.	Complete a comparison statement based on the ratios in two tables.	SMMA_LO_02116
		Ratios and Equations Targeted Lesson 11: Writing Ratios	
6.RP.A.3.b	Solve unit rate problems including those involving unit pricing and constant speed. For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?	Solve time and distance problems (whole numbers).	SMMA_LO_00842
		Find the number of hours worked given the hourly rate and total earned.	SMMA_LO_01625
		Find the total money earned, given the number of hours worked and the hourly rate.	SMMA_LO_01630
		Solve a problem in context using proportions.	SMMA_LO_01635
		Convert light years to kilometers and kilometers to light years.	SMMA_LO_01339

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		Find the unit price of an item (products 2 x 6 to 25 x 32).	SMMA_LO_00830
		Calculate, compare, and use units rates to find the best prices for bakery ingredients.	SMMA_LO_02510
		Identify two unit rates for a given word problem.	SMMA_LO_02114
6.RP.A.3.c	Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.	Find a percent of a money amount (\$0.80 to \$10.80).	SMMA_LO_00270
		Find a percent of a number (the percent is greater than or equal to 100).	SMMA_LO_00275
		Find the percent given the whole and the part.	SMMA_LO_00276
		Find the whole given the percent and the part.	SMMA_LO_00277
		Determine the percent (100 total items).	SMMA_LO_01713
		Express a fraction as a percent (denominator is 100).	SMMA_LO_01714
		Calculate and compare percentages to find the best free basketball throw shooter.	SMMA_LO_02509
		Ratios and Equations Targeted Lesson 17: What Does the Percent Refer To?	
		Ratios and Equations Targeted Lesson 18: Solving Percent Problems	
6.RP.A.3.d	Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.	Convert measurement units either by making a table or by multiplying by a unit rate.	SMMA_LO_02117
		Convert light years to kilometers and kilometers to light years.	SMMA_LO_01339

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6.NS.A	The Number System: Apply and extend previous understandings of multiplication and division to divide fractions by fractions.		
6.NS.A.1	Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. For example, create a story context for $2/3 \div 3/4$ and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that $2/3 \div 3/4 = 8/9$ because $3/4$ of $8/9$ is $2/3$. (In general, $a/b \div c/d = ad/bc$.) How much chocolate will each person get if 3 people share $1/2$ lb of chocolate equally? How many $3/4$ -cup servings are in $2/3$ of a cup of yogurt? How wide is a rectangular strip of land with length $3/4$ mi and area $1/2$ square mi?	Divide fractions; simplify if necessary.	SMMA_LO_00487
		Divide a fraction by a mixed number; simplify if necessary.	SMMA_LO_00491
		Identify the equivalent expression for a fraction, whole number, or a mixed numbers being divided by a fraction, a whole number, or a mixed number.	SMMA_LO_00511
		Divide a mixed number by a whole number; simplify if necessary.	SMMA_LO_00502
		Divide fractions; simplify.	SMMA_LO_00512
		Divide a fraction by a fraction; simplify if necessary.	SMMA_LO_01788
		Divide a mixed number by a fraction; simplify if necessary.	SMMA_LO_01789
		Divide a mixed number by a mixed number; simplify if necessary.	SMMA_LO_01790

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6.NS.B	The Number System: Compute fluently with multi-digit numbers and find common factors and multiples.		
6.NS.B.2	Fluently divide multi-digit numbers using the standard algorithm.	Divide using the long division algorithm (three-digit number, two-digit divisor, remainder).	SMMA_LO_00304
		Divide (combinations 2 x 20 to 5 x 90, three-digit dividend, one or two-digit divisor, no remainder).	SMMA_LO_00291
		Divide using the long division algorithm (three-digit dividend, one-digit divisor, remainder).	SMMA_LO_00297
		Divide using the long division algorithm (three-digit dividend, one-digit divisor, no remainder).	SMMA_LO_00296
		Divide using the long division algorithm (three-digit dividend, one-digit divisor, remainder).	SMMA_LO_00298
6.NS.B.3	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.	Align the decimal numbers for a vertical addition problem; then solve (to thousandths).	SMMA_LO_00226
		Align the decimal numbers for a vertical subtraction problem; then solve (to thousandths).	SMMA_LO_00228
		Align the decimal numbers in a vertical subtraction problem; then solve (decimals to thousandths).	SMMA_LO_00233
		Multiply decimals (to thousandths x hundredths).	SMMA_LO_00234
		Subtract decimals with regrouping (to ten-thousandths).	SMMA_LO_00243
		Multiply decimals (to ten-thousandths x ten-thousandths).	SMMA_LO_00244
		Move the decimal point in the divisor and dividend in a long division problem.	SMMA_LO_00247
		Divide a decimal by a whole number.	SMMA_LO_00248
		Move the decimal point in the divisor and dividend in a long division problem; then find the quotient.	SMMA_LO_00249
		Find a decimal number that is either greater than or less than two decimal numbers.	SMMA_LO_01118

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		Add the decimal numbers provided on a data table.	SMMA_LO_01785
		Subtract the decimal numbers provided on a data table.	SMMA_LO_01786
		Subtract decimal numbers (minuends and subtrahends 0.1 to 99.9, with or without regrouping).	SMMA_LO_00203
		Align the decimal numbers in a vertical subtraction problem; then solve (hundredths, regrouping).	SMMA_LO_00212
		Divide a decimal by 0.1, 0.01, or 0.001.	SMMA_LO_00263
		Multiply decimals displayed horizontally (0.2 x 0.6 to 0.9 x 0.12).	SMMA_LO_00232
		Add two decimal numbers (sums 1.0 to 98.9, regrouping).	SMMA_LO_00201
		Divide decimals (0 x 2 to 2 x 5).	SMMA_LO_00251
		Divide a decimal by 0.1, 0.01, or 0.001 (dividends 0.001 to 0.999).	SMMA_LO_00267
		Fractions and Decimals Targeted Lesson 34: Adding and Subtracting Decimals	
		Fractions and Decimals Targeted Lesson 35: Multiplying Decimals	
		Fractions and Decimals Targeted Lesson 36: Multiplying and Dividing Decimals	

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6.NS.B.4	Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factor. For example, express $36 + 8$ as $4(9 + 2)$.	Given the prime factorization of two numbers, find the common multiple.	SMMA_LO_01108
		Find the greatest common factor for two to three numbers.	SMMA_LO_01110
		Find the least common multiple of two or three numbers.	SMMA_LO_01112
		Ratios and Equations Targeted Lesson 1: Greatest Common Factor	
6.NS.C	The Number System: Apply and extend previous understandings of numbers to the system of rational numbers.		
6.NS.C.5	Explain why positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.	Read the temperature on a thermometer to nearest degree (-10 to 10 degrees).	SMMA_LO_00804
		Read and interpret data in a table to determine the wind chill temperature.	SMMA_LO_01314
		Read and interpret data in a table to determine the time it would take for skin to freeze.	SMMA_LO_01315
		Use positive and negative numbers together to represent quantities having opposite directions or values.	SMMA_LO_02066
		Ratios and Equations Targeted Lesson 4: Understanding Positive and Negative Numbers	

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6.NS.C.6	Describe a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.	Locate the missing integer on a number line (-3 to -12).	SMMA_LO_00101
		Ratios and Equations Targeted Lesson 3: Negative Numbers and Number Lines	
		Ratios and Equations Targeted Lesson 4: Understanding Positive and Negative Numbers	
6.NS.C.6.a	Use opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; identify that the opposite of the opposite of a number is the number itself, e.g., $-(-3) = 3$, and that 0 is its own opposite.	Evaluate the expression $-(-a)$, where a has values 1 to 99.	SMMA_LO_01518
		Ratios and Equations Targeted Lesson 4: Understanding Positive and Negative Numbers	
6.NS.C.6.b	Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; explain that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.	Given two points, describe how the points are related: reflected across the x-axis, reflected across the y-axis, or reflected across both axes.	SMMA_LO_02108
		Identify a point on a grid given an ordered pair, or identify the ordered pair for a point shown on the grid.	SMMA_LO_01057
6.NS.C.6.c	Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.	Locate the missing integer on a number line (-3 to -12).	SMMA_LO_00101
		Graph a set of ordered pairs from a table on a coordinate plane (Quadrant I).	SMMA_LO_01809
		Drag rational and irrational values to their correct positions on a number line.	SMMA_LO_02141

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		Graph a set of ordered pairs from a table on a coordinate plane.	SMMA_LO_01810
		Graph points on a coordinate plane based on a real-world context.	SMMA_LO_02112
		Ratios and Equations Targeted Lesson 29: Coordinates	
6.NS.C.7	Order and find absolute value of rational numbers.		
6.NS.C.7.a	Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example, interpret $-3 > -7$ as a statement that -3 is located to the right of -7 on a number line oriented from left to right.	Complete statements of order for rational numbers in real-world contexts.	SMMA_LO_02110
		Ratios and Equations Targeted Lesson 4: Understanding Positive and Negative Numbers	
6.NS.C.7.b	Write, interpret, and explain statements of order for rational numbers in real-world contexts. For example, write $-3^{\circ}C > -7^{\circ}C$ to express the fact that $3^{\circ}C$ is warmer than $-7^{\circ}C$.	Compare rational numbers in real-world contexts.	SMMA_LO_02109
		Complete statements of order for rational numbers in real-world contexts.	SMMA_LO_02110
6.NS.C.7.c	Define the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. For example, for an account balance of -30 dollars, write $ -30 = 30$ to describe the size of the debt in dollars.	Identify absolute value as a distance from zero on a number line.	SMMA_LO_01823
		Evaluate the absolute value of a number.	SMMA_LO_01824
		Compare the absolute values of positive and negative quantities in a real-world situation.	SMMA_LO_02111
		Ratios and Equations Targeted Lesson 5: Absolute Value	

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6.NS.C.7.d	Distinguish comparisons of absolute value from statements about order. For example, recognize that an account balance less than -30 dollars represents a debt greater than 30 dollars.	Compare the absolute values of positive and negative quantities in a real-world situation.	SMMA_LO_02111
		Ratios and Equations Targeted Lesson 5: Absolute Value	
6.NS.C.8	Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.	Graph points on a coordinate plane based on a real-world context.	SMMA_LO_02112
		Find distances between points with the same first coordinate or the same second coordinate by using coordinates and absolute value.	SMMA_LO_02113
		Ratios and Equations Targeted Lesson 29: Coordinates	
2	Algebra and Functions		
6.EE.A	Expressions & Equations: Apply and extend previous understandings of arithmetic to algebraic expressions.		
6.EE.A.1	Write and evaluate numerical expressions involving whole-number exponents.	Give the value of a number (1 to 10) raised to a power (1 to 5).	SMMA_LO_01098
6.EE.A.2	Write, read, and evaluate expressions in which letters stand for numbers.	Match expressions with repeated factors to numbers in exponential form to create equations.	SMMA_LO_01100
		Evaluate an expression within a context (multiplication).	SMMA_LO_01740
		Evaluate an algebraic expression (integers -10 to 10).	SMMA_LO_01842
		Given the value for the variable, evaluate an addition expression (sums 4 to 12).	SMMA_LO_01683
		Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient).	SMMA_LO_02057

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		Evaluate an expression with variables using substitution and a value chart (addition, sums to 18).	SMMA_LO_01685
		Write an expression to represent a real-world problem, using variables to represent numbers.	SMMA_LO_02062
		Write expressions that record operations with numbers and variables.	SMMA_LO_02056
		Ratios and Equations Targeted Lesson 22: Evaluating Algebraic Expressions	
		Ratios and Equations Targeted Lesson 24: Equivalent Expressions	
6.EE.A.2.a	Write expressions that record operations with numbers and with letters standing for numbers. For example, express the calculation "Subtract y from 5" as $5 - y$.	Identify the expression that is a translation of the written phrase.	SMMA_LO_01759
		Identify the written phrase that is a translation of an expression or inequality.	SMMA_LO_01815
		Translate an expression into a written phrase (two-step).	SMMA_LO_01816
		Write expressions that record operations with numbers and variables.	SMMA_LO_02056
		Write an expression to represent a real-world problem, using variables to represent numbers.	SMMA_LO_02062
6.EE.A.2.b	Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity. For example, describe the expression $2(8 + 7)$ as a product of two factors; view $(8 + 7)$ as both a single entity and a sum of two terms.	Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient).	SMMA_LO_02057

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6.EE.A.2.c	Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations). For example, use the formulas $V = s^3$ and $A = 6s^2$ to find the volume and surface area of a cube with sides of length $s = 1/2$.	Given the value for the variable, evaluate an addition expression (sums 4 to 12).	SMMA_LO_01683
		Evaluate an expression with variables using substitution and a value chart (addition, sums to 18).	SMMA_LO_01685
		Evaluate the expression $mx + c$ or $mx - c$.	SMMA_LO_01739
		Evaluate an expression within a context (multiplication).	SMMA_LO_01740
		Generate a table of values given a one-step rule.	SMMA_LO_01755
		Ratios and Equations Targeted Lesson 19: Parentheses and Order of Operations	
		Ratios and Equations Targeted Lesson 22: Evaluating Algebraic Expressions	
		Ratios and Equations Targeted Lesson 24: Equivalent Expressions	

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6.EE.A.3	Apply the properties of operations to generate equivalent expressions. For example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$; apply the distributive property to the expression $24x + 18y$ to produce the equivalent expression $6(4x + 3y)$; apply properties of operations to $y + y + y$ to produce the equivalent expression $3y$.	Identify an equivalent expression for $a \times (b + c)$ with variables.	SMMA_LO_00129
		Apply the properties of operations to generate equivalent expressions.	SMMA_LO_02059
6.EE.A.4	Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them). For example, the expressions $y + y + y$ and $3y$ are equivalent because they name the same number regardless of which number y stands for.	Choose all expressions that are equivalent to a given expression.	SMMA_LO_02060
		Identify an equivalent expression for $a \times (b + c)$ with variables.	SMMA_LO_00129
		Identify $a \times (b - c)$ as equivalent to $(a \times b) - (a \times c)$.	SMMA_LO_01534
		Identify an equivalent expression of commutativity for addition of integers.	SMMA_LO_00114
		Ratios and Equations Targeted Lesson 24: Equivalent Expressions	

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6.EE.B	Expressions & Equations: Reason about and solve one-variable equations and inequalities.		
6.EE.B.5	Describe solving an equation or inequality as a process of answering a question: Which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	SMMA_LO_02061
		Identify two numbers that make an inequality true (two-digit).	SMMA_LO_00997
		Identify two numbers that make an inequality true (0 to 9).	SMMA_LO_00994
		Determine whether a given value for x is a solution for $ax + b = c$ (x is from -9 to 9).	SMMA_LO_00397
		Determine whether the given values for x and y satisfy $y = ax + b$.	SMMA_LO_00398
6.EE.B.6	Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; recognize that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.	Write an expression to represent a real-world problem, using variables to represent numbers.	SMMA_LO_02062
		Write expressions that record operations with numbers and variables.	SMMA_LO_02056
		Ratios and Equations Targeted Lesson 20: Algebraic Expressions	
6.EE.B.7	Solve real-world and mathematical problems by writing and solving equations of the form $x \pm p = q$ and $px = q$ for cases in which p , q and x are all nonnegative rational numbers.	Represent solutions for one-variable, one-step equations and inequalities on a number line. Solve for a or b in $a \times b = c$ (products 6 x 2 to 9 x 12).	SMMA_LO_00357
		Solve for a or b in $a \div b = c$ (combinations 2 \div 10 to 5 \div 12).	SMMA_LO_00359
		Solve for a or b in $a \div b = c$ (combinations 6 \div 10 to 9 \div 12).	SMMA_LO_00361
		Solve for a or b in $a \times b = x$ (products 2 x 10 to 12 x 12).	SMMA_LO_00363

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		Solve for a or b in $a \div b = c$ (combinations $6 \div 20$ to $9 \div 90$, multiples of 10).	SMMA_LO_00365
		Solve for a or b in $a \times b = x$ (products 2×20 to 12×90 , multiples of 10).	SMMA_LO_00366
		Solve for a or b in $a + b = c$ (decimals to tenths, no regrouping).	SMMA_LO_00367
		Solve for a or b in $a - b = c$ (decimals to tenths, regrouping).	SMMA_LO_00368
		Solve for a or b in $a \times b = c$ (products from 0.2×0.6 to 0.9×0.9).	SMMA_LO_00369
		Solve for a or b in $a \div b = c$ (combinations $0.6 \div 0.6$ to $0.9 \div 0.9$).	SMMA_LO_00370
		Solve for a, b, or c in $a \div b/c = d/e$ (combinations to $12 \div 12$).	SMMA_LO_00371
		Solve for a or b in $a + b = c$ (decimals to hundredths).	SMMA_LO_00373
		Solve for a or b in $a - b = c$ (decimals to hundredths, regrouping).	SMMA_LO_00374
		Solve for a or b in $a \times b = c$ (products from 0.02×0.13 to 0.09×0.19).	SMMA_LO_00376
		Solve for a or b in $a \div b = c$ (up to 4-digit decimals).	SMMA_LO_00378
		Solve for a in $a + b = c$ or $a - b = c$ in steps (whole number sums and differences 2 to 20).	SMMA_LO_00379
		Solve for x in $ax = c$ in steps (products 4×4 to 9×10).	SMMA_LO_00380
		Complete the steps to solve for a in $a \div b = c$ (combinations 4×4 to 9×10).	SMMA_LO_00381
		Solve a one-step equation (subtraction).	SMMA_LO_01688
		Solve a one-step equation (multiplication).	SMMA_LO_01690
		Solve a one-step equation (division).	SMMA_LO_01692
		Solve a one-step equation in context (addition, two-digit whole numbers).	SMMA_LO_01743
		Solve a one-step equation in context (subtraction, two-digit whole numbers).	SMMA_LO_01744

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		Solve a one-step equation in context (division, two-digit whole numbers).	SMMA_LO_01745
		Solve a one-step equation in context (division, two-digit whole numbers).	SMMA_LO_01747
		Solve for a in $ba/c = d$ by multiplying by the reciprocal.	SMMA_LO_01795
		Solve one-step equations (addition and subtraction, fractions).	SMMA_LO_01796
		Solve a one-step equation (multiplication, decimals).	SMMA_LO_01797
		Solve for a in $a/b = c$.	SMMA_LO_01798
		Solve a one-step equation (fractions, multiplication and division).	SMMA_LO_01847
		Solve a one-step equation (fractions, addition and subtraction).	SMMA_LO_01868
		Ratios and Equations Targeted Lesson 25: The Addition Property of Equality	
		Ratios and Equations Targeted Lesson 27: Writing and Solving Equations from Situations	
6.EE.B.8	Write an inequality of the form $x > c$, $x \geq c$, $x < c$, or $x \leq c$ to represent a constraint or condition in a real-world or mathematical problem. Show that inequalities of the form $x > c$, $x \geq c$, $x < c$, or $x \leq c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.	Write an inequality of the form $x > c$ or $x < c$ to represent a constraint in a real-world problem.	SMMA_LO_02064
		Write an inequality of the form $x > c$ or $x < c$ to represent a constraint in a real-world problem. Then represent the solution on a number line.	SMMA_LO_02065
		Write an inequality of the form $px + q > r$ or $px + q < r$ to represent a constraint in a real-world problem.	SMMA_LO_02083
		Write and use inequalities to decide whether vegetables in a processing plant meet quality standards	SMMA_LO_02511

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		Ratios and Equations Targeted Lesson 28: Solving Inequalities	
6.EE.C	Expressions & Equations: Represent and analyze quantitative relationships between dependent and independent variables.		
6.EE.C.9	Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation $d = 65t$ to represent the relationship between distance and time.	Write an equation that represents the relationship between independent and dependent quantities from a table.	SMMA_LO_01741
3	Data, Statistics, and Probability		
6.SP.A	Statistics & Probability: Develop understanding of statistical variability.		
6.SP.A.1	Identify a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.	Recognize statistical questions in which data with variability can be collected.	SMMA_LO_02172
6.SP.A.3	Explain that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.	Identify the measure of center that best summarizes the data in a graph.	SMMA_LO_02202
6.SP.B	Statistics & Probability: Summarize and describe distributions.		

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6.SP.B.4	Display numerical data in plots on a number line, including dot plots, histograms, and box plots.	Find the five values (upper and lower extremes, median, and upper and lower quartiles) from a set of data that are needed to create a box-and-whiskers plot.	SMMA_LO_01199
		Identify box-and whiskers plot that matches a given set of data.	SMMA_LO_01201
		Make a line plot to show measurement data in fractions of a unit.	SMMA_LO_02196
		Identify data sets that match the data represented in a given box-and-whiskers plot.	SMMA_LO_01202
		Make a line plot to show measurement data in whole number units.	SMMA_LO_02158
		Determine minimum, maximum, range, median, and IQR in a box plot.	SMMA_LO_02219
		Identify the most frequent value (mode) using a line plot.	SMMA_LO_01164
		Find the five values (upper and lower extremes, median, and upper and lower quartiles) from a set of data that are needed to create a box-and-whiskers plot.	SMMA_LO_01199
6.SP.B.5	Summarize numerical data sets in relation to their context, such as by:		
6.SP.B.5. a	Reporting the number of observations.	Determine the number of observations in a data set.	SMMA_LO_02200
6.SP.B.5.c	Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.	Find the average (mean) of 3 numbers.	SMMA_LO_00151
		Determine a student's grade point average based on five grades.	SMMA_LO_00179
		Determine the mean, median, MAD, or IQR of a data set.	SMMA_LO_02173

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		Determine the average (mean) of a data set of three to five customary weights or metric masses.	SMMA_LO_00836
		Find the range of a set of data.	SMMA_LO_01166
		Identify the median of a data set with an odd number of items.	SMMA_LO_01168
		Identify the median of a data set with an even number of items and the two middle values are not equal.	SMMA_LO_01170
		Find the five values (upper and lower extremes, median, and upper and lower quartiles) from a set of data that are needed to create a box-and-whiskers plot.	SMMA_LO_01199
		Determine minimum, maximum, range, median, and IQR in a box plot.	SMMA_LO_02219
		Determine the range of a set of data represented in a line graph.	SMMA_LO_01176
		Determine the average (mean), median, mode, and range.	SMMA_LO_01210
		Determine the mode of a data set.	SMMA_LO_01719
		Determine the median of a data set.	SMMA_LO_01726
		Determine the mean of a data set.	SMMA_LO_01727
		Determine the range of a set of data.	SMMA_LO_01766
		Determine the median of a set of data.	SMMA_LO_01768
6.SP.B.5.d	Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.	Identify the measure of center that best summarizes the data in a graph.	smma_lo_02202
4	Geometry		

Colorado Academic Standards' Code	Colorado Academic Standards Mathematics 2020 Grade 6	SuccessMaker Item Descriptions	Item IDs
6.G.A	Geometry: Solve real-world and mathematical problems involving area, surface area, and volume.	Find the area of a triangle using a formula.	SMMA_LO_00827
6.G.A.1		Find the area of a triangle (2 to 72 square inches).	SMMA_LO_00176
		Use a formula to find the area of a parallelogram.	SMMA_LO_00824
		Decompose Shapes into triangles and rectangles to find the area.	SMMA_LO_02168
		Multiplication and Division Targeted Lesson 26: Solving Area Word Problems	
6.G.A.2	Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = lwh$ and $V = bh$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.	Solve for a variable in the formula for volume of a rectangular prism (whole numbers and mixed numbers).	SMMA_LO_01817
		Find the volume of a prism by packing the prism with unit cubes.	SMMA_LO_02042
		Compute the volume of right rectangular prisms using formulas.	SMMA_LO_02043
		Determine the volume of a box given the height, width, and length (60 to 480 customary or metric cubic units).	SMMA_LO_00174
		Find the volume of a rectangular solid by counting cubes.	SMMA_LO_00833
		Calculate the volume of a rectangular prism; then convert the cubic feet or cubic meters into gallons or liters.	SMMA_LO_01819
		Find the volume of a right rectangular prism with fractional edge lengths.	SMMA_LO_02169

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6.G.A.3	Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.	Identify the set of faces for a geometric solid.	SMMA_LO_00664
		Draw polygons in the coordinate plane and find the length of a side.	SMMA_LO_02170
6.G.A.4	Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.	Identify the net for a geometric solid.	SMMA_LO_00675
		Identify the net that forms a three-dimensional solid.	SMMA_LO_01772